TABLE 52

Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2021
(Dollars in thousands)

| Agency | Total | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
|---|------------|--|---|------------------|----------------------------------|-------------------|------------|-----------------|-------------|-----------------|
| All agencies | 15,586,008 | 405,887 | 547,854 | 9,587,056 | 101,455 | 191,773 | 1,176,210 | 383,334 | 1,837,098 | 1,355,341 |
| Departments | | | | | | | | | | |
| Department of Agriculture | 557,830 | 8,044 | 21,395 | 332,159 | 7,038 | 14,163 | 11,657 | 60,370 | 36,590 | 66,415 |
| Agricultural Marketing Service | 2,509 | 0 | 0 | 2,509 | 0 | 0 | 0 | 0 | 0 | 0 |
| Agricultural Research Service | 76,024 | 99 | 335 | 69,844 | 0 | 4,881 | 0 | 182 | 684 | 0 |
| Economic Research Service | 8,247 | 0 | 0 | 0 0 0 0 0 0 | 0 | 0 | 0 | 8,247 | 0 | 0 |
| Forest Service | 10,745 | 470 | 3,008 | 4,788 | 0 | * | 0 | 2,292 | 165 | 0 |
| National Agricultural Statistics Service | 223 | 223 | 0 | 4,788 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institute of Food and Agriculture | 459,077 | 7,252 | 18,053 | 254,014 | 7,038 | 9,260 | 11,657 | 49,648 | 35,741 | 66,415 |
| Natural Resources Conservation Service | 1,004 | 0 | 0 | 1,004 | 0 | 0 | 0 | 0 | 0 | 0 |
| Department of Commerce | 243,621 | 3,308 | 184,515 | 14,126 | 724 | 9,569 | 0 | 5,357 | 25,596 | 425 |
| National Institute of Standards and Technology | 30,060 | 1,859 | 2,292 | 3,783 | 0 | 151 | 0 | 0 | 21,974 | 0 |
| National Oceanic and Atmospheric Administration | 213,561 | 1,449 | 182,223 | 10,343 | 724 | 9,418 | 0 | 5,357 | 3,622 | 425 |
| Department of Defense | 1,026,346 | 212,987 | 109,728 | 157,394 | 0 | 39,019 | 8,435 | 6,179 | 293,979 | 198,625 |
| Defense Advanced Research Projects Agency | 300,511 | 155,412 | 11,532 | 79,771 | 0 | 3,843 | 7,905 | 0 | 41,525 | 523 |
| Defense Health Agency | 39,864 | 0 | 0 | 39,864 | 0 | 0,040 | 0 | 0 | | 0 |
| Department of the Air Force | 164,191 | 11,041 | 0 | 0 | 0 | 18,641 | 0 | | | 6,855 |
| Department of the Army | 180,327 | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 397 | 179,876 |
| Department of the Navy | 306,290 | 41,935 | 98,196 | 28,529 | | 10,349 | 0 | 259 | 121,930 | 5,092 |
| Other defense agencies | 35,164 | 4,545 | 0 | 9,230 | 0 | 6,186 | 530 | 5,920 | 2,474 | 6,279 |
| Department of Education | 116,191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 116,191 |
| Department of Energy | 495,272 | 7,615 | 15,570 | 16,360 | 0 | 21,944 | 0 | 0 | 433,783 | 0 |
| Advanced Research Projects Agency —Energy | 53,383 | 7,615 | 1,126 | 16,360 | 0 | 0 | 0 | 0 | 28,281 | 0 |

TABLE 52

Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2021

(Dollars in thousands)

| (Dollars in thousands) | | | 0 | | | | | | | |
|---|------------|--|---|------------------|----------------------------------|-------------------|------------|-----------------|-------------|-----------------|
| Agency | Total | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
| Electricity | | | | | | | | | | |
| Delivery and Energy Reliability | 3,402 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,402 | 0 |
| Energy Efficiency and Renewable Energy | 258,811 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 258,811 | 0 |
| Environmental Management | 1,650 | 0 | 1,650 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fossil Energy | 134,668 | 0 | 12,793 | 0 | 0 | 21,412 | 0 | 0 | 100,462 | 0 |
| National Nuclear Security Administration | 1,541 | 0 | 0 | 0 | 0 | 531 | 0 | 0 | 1,009 | 0 |
| Defense | 1 1 4 1 | 0 | 0 | 0 | 0 | 531 | 0 | 0 | 609 | 0 |
| Programs Office of Defense Nuclear | 1,141 | 0 | 0 | U | 0 | 331 | 0 | 0 | 609 | 0 |
| Nonproliferation | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 400 | 0 |
| Nuclear Energy | 41,818 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,818 | 0 |
| Department of Health and Human Services | 12,017,207 | 1,828 | 151,947 | 9,031,475 | 91,767 | 78,474 | 1,155,017 | 273,431 | 726,860 | 506,407 |
| Administration for Children and Families | 1,800 | 0 | 0 | 0 | 0 | 0 | 0 | 1,800 | 0 | 0 |
| Administration for Community Living | 80,767 | 0 | 0 | 0 | 0 | 0 | 0 | 80,767 | 0 | 0 |
| Agency for Healthcare Research and Quality | 100,709 | 1,828 | 0 | 1,192 | 0 | 10,848 | 0 | 10,152 | 76,689 | 0 |
| Agency for Toxic Substances and Disease Registry | 6,686 | 0 | 6,686 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Centers for Disease Control and Prevention | 195,900 | 0 | 0 | 167,670 | 0 | * | 0 | 27,636 | 289 | 300 |
| Food and Drug Administration | 71,424 | 0 | 0 | 71,424 | 0 | 0 | 0 | 0 | 0 | 0 |
| Health Resources and Services Administration | 26,620 | 0 | 0 | 26,620 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Institutes of Health | 11,530,902 | 0 | 145,261 | 8,764,569 | 91,767 | 67,621 | 1,155,017 | 153,075 | 649,883 | 503,708 |
| Office of the Secretary of Health and Human Services | 2,399 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,399 |

TABLE 52

Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2021
(Dollars in thousands)

| Agency | Total | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
|---|---------|--|---|------------------|----------------------------------|-------------------|------------|-----------------|-------------|-----------------|
| Office of the Assistant Secretary for Planning and Evaluation | 2,399 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,399 |
| Department of Homeland Security | 6,101 | 3,013 | 0 | 0 | 0 | 0 | 0 | 0 | 3,088 | 0 |
| Countering Weapons of Mass Destruction Office | 785 | 785 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Science and Technology Directorate | 5,316 | 2,228 | 0 | 0 | 0 | 0 | 0 | 0 | 3,088 | 0 |
| Department of the Interior | 50,908 | 0 | 32,472 | 8,362 | 0 | 0 | 0 | 5,196 | 4,879 | 0 |
| Bureau of Land Management | 3,166 | 0 | 0 | 3,166 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Ocean Energy Management | 7,401 | 0 | 7,401 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bureau of Reclamation | 1,147 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,147 | 0 |
| Bureau of Safety and Environmental Enforcement | 3,732 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,732 | 0 |
| Geological Survey | 25,071 | 0 | 25,071 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| National Park Service | 10,391 | 0 | 0 | 5,196 | 0 | 0 | 0 | 5,196 | 0 | 0 |
| Department of Justice | 32,037 | 1,996 | 452 | 550 | 377 | 2,630 | 0 | 23,911 | 751 | 1,370 |
| Federal Bureau of Investigation | 1,370 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,370 |
| Office of Justice Programs | 30,667 | 1,996 | 452 | 550 | 377 | 2,630 | 0 | 23,911 | 751 | 0 |
| Department of Transportation | 156,857 | 1,061 | 79 | 3,364 | 797 | 4,131 | 1,091 | 0 | 145,361 | 973 |
| Federal Aviation Administration | 66,304 | 1,051 | 64 | 104 | 797 | 0 | 1,076 | 0 | 62,238 | 973 |
| Federal Highway Administration | 71,445 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 71,445 | 0 |
| Federal Motor Carrier Safety Administration | 4,141 | * | 0 | 0 | 0 | 4,131 | 0 | 0 | 0 | 0 |
| Federal Railroad Administration | 5,225 | 0 | * | 0 | 0 | 0 | * | 0 | 5,196 | 0 |
| National Highway Traffic Safety Administration | 6,549 | 0 | 0 | 3,260 | 0 | 0 | 0 | 0 | 3,289 | 0 |
| Pipeline and Hazardous Materials Safety Administration | 3,193 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,193 | 0 |

TABLE 52

Federal obligations for applied research performed at higher education institutions, by agency and field of R&D: FY 2021

(Dollars in thousands)

| Agency | Total | Computer and information sciences | Geosciences, atmospheric sciences, and ocean sciences | Life sciences | Mathematics and statistics | Physical sciences | Psychology | Social sciences | Engineering | Other fields |
|--|---------|--|---|------------------|----------------------------|-------------------|------------|-----------------|-------------|-----------------|
| Department of the Treasury | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 |
| Bureau of Engraving and Printing | 200 | 0 | 0 | 0 | 0 | 200 | 0 | 0 | 0 | 0 |
| Other agencies | | | | | | | | | | |
| Agency for International Development | 2,975 | 0 | 0 | 975 | 0 | 0 | 0 | 0 | 0 | 2,000 |
| Appalachian Regional Commission | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 113 | 0 | 0 |
| Consumer Product Safety Commission | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 | 0 |
| Environmental Protection Agency | 40,338 | 551 | 16,587 | 15,899 | 306 | 961 | 0 | 232 | 5,801 | 0 |
| National Aeronautics and Space Administration | 176,105 | 0 | 389 | 125 | 0 | 0 | 0 | 0 | 7,945 | 167,646 |
| National Science Foundation | 651,375 | 165,463 | 14,720 | 6,266 | 446 | 20,683 | * | 2,420 | 146,077 | 295,290 |
| Nuclear Regulatory Commission | 6,257 | * | 0 | 0 | 0 | 0 | 0 | 0 | 6,237 | 0 |
| Social Security Administration | 6,124 | 0 | 0 | 0 | 0 | 0 | 0 | 6,124 | 0 | 0 |

^{* =} amount greater than \$0 but less than \$50,000.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2021 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table. As of volume 71 (FYs 2021–22), the fields of R&D (formerly, "fields of science and engineering") were revised for consistency with other National Center for Science and Engineering Statistics surveys; some fields were added, merged, or split, and some fields were renamed. Therefore, the data are not directly comparable with totals reported in previous years. See technical table A-3 for additional notes associated with the taxonomy changes to the fields listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021-22.